

DSPE-256

16 x 16 Audio System

Overview

DSPECIALISTS audio system DSPE-256 is a compact DSP module based on Analog Devices ADSP21369. It allows processing of up to 16 digital input and 16 digital output channels as TDM or I²S.

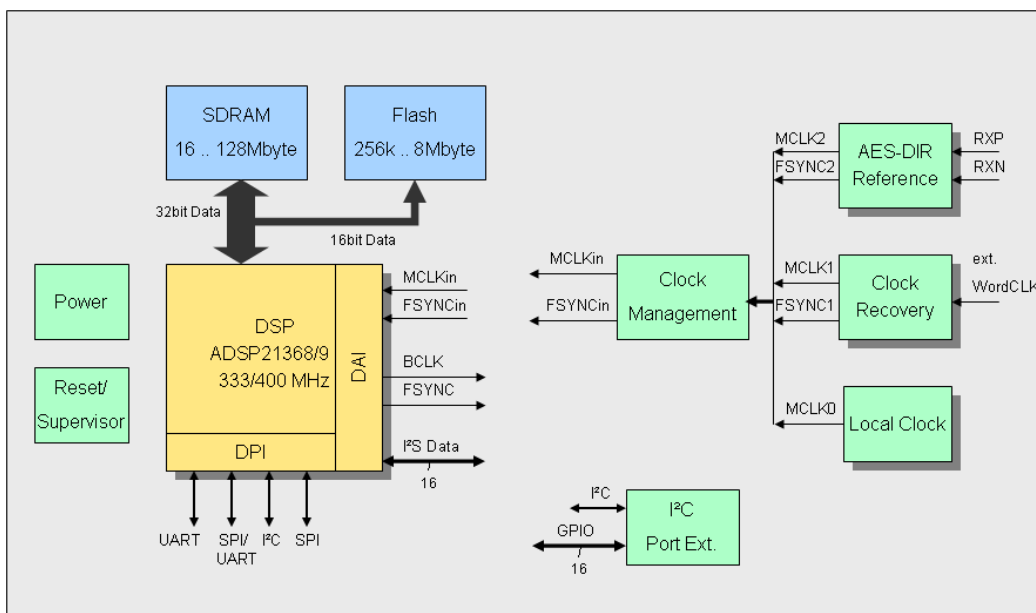
Due to its on-board flash memory DSPE-256 is capable to run as a stand-alone system. It can be easily embedded into any customer-specific environment.

DSPE-256 is able to work with 3 different clock sources, which makes it to the perfect embedded component for professional audio devices.

DSPE-256 covers a wide range of embedded multi-channel signal processing tasks like audio matrix, filtering, signal analysis, correlation, feature extraction and measurement.

The board is accompanied with hardware drivers and a software framework. For audio applications there is a wide range of approved standard library functions and a graphical user interface (GUI) available.

Block Diagram



Key Features

- Stand-alone 32-bit DSP system
- Digital inputs and outputs as TDM or I²S
- Adaptable to customer-specific hardware
- Library for standard audio processing
- Three different clock sources selectable: Word clock, AES/EBU reference, local clock
- Software framework for customer-specific algorithms
- Parameter input via PC user interface
- Up to 16 software setups stored in Flash

